DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DEPARTMENT OF THE
AIR FORCE TECHNICAL ORDER

TM 11-900A

TO 35C2-3-35-11 C 6

POWER UNIT PE-75-AF

TM 11-900A TO 35C2-3-35-11 Changes No. 6 DEPARTMENTS OF THE ARMY AND THE AIR FORCE WASHINGTON 25, D.C., 22 January 1963

TM 11-900A/TO 35C2-3-35-11, 8 August 1952, is changed as follows:

Page 72. Add chapter 6 after chapter 5.

CHAPTER 6 (Added) EQUIPMENT SERVICEABILITY CRITERIA POWER UNIT PE-75-AF

73. Purpose

The procedures described in paragraphs 74 through 78 will be used to evaluate equipment serviceability. This chapter does not affect the requirements in other portions of the technical manual pertaining to periodic preventive maintenance service on the equipment.

74. Scope

The instructions in this chapter apply to all organizations of the Army and will be performed by first or second echelon maintenance personnel. Evaluation of each assigned equipment will be made periodically in accordance with these instructions; the frequency of the evaluation will be directed by appropriate Commands.

75. Categories of Equipment Serviceability

Equipment will be rated as either GO (combat ready) or NO-GO (not combat ready).

a. The GO condition is subdivided into two categories—GREEN and AMBER.

- (1) GREEN—completely combat ready.
- (a) Equipment passes all applicable tests in this chapter.
- (b) All running spares and accessories are on hand at the using organization.
- (2) AMBER—conditionally combat ready. Equipment passes all applicable tests in this chapter. As soon as the complete prescribed load of running spares and accessories are on hand at the using organization, the category AMBER changes to GREEN.

- b. The NO-GO classification is defined as category RED. Category RED is in affect when:
 - (1) Equipment fails one or more of the applicable tests in this chapter even though all running spares and tools and accessories are on hand at the using organization.
 - (2) One or more URGENT modification work orders (MWO) has not been applied.

76. Inspection and Maintenance Worksheet

- a. DA Form 2404 (Equipment Inspection and Maintenance Worksheet) will be used to record results of the equipment serviceability evaluation as follows:
 - (1) Complete blocks 1, 2, 3, and 5.
 - (2) Enter ESE (equipment serviceability evaluation) in block 6.
 - (3) Enter publication number and publication date in block 7.
 - (4) Enter the item number of each test in column a and the symbol P (for pass) or F (for fail) as applicable in column b.
 - (5) Record the date of each evaluation below the last entry in column b.
 - (6) After performing the evaluation, the evaluator will sign DA Form 2404 above column b. Supervisor will sign after the last entry in column b.
- b. Lines may be drawn vertically in columns c and d to record subsequent evaluations. If column c or d is used for recording subsequent evaluations, the date of evaluation will be recorded and the DA Form 2404 will be signed by the evaluator and his supervisor.

77. Test Conditions.

- a. Place Power Unit PE-75-AF (power unit) on a level surface at a safe distance from flammable material. The selected location should be as near to the normal power unit load as possible. Remove the cover from the power unit (if in place) and connect the power unit to the normal load. If the normal load has connecting power cables with plugs attached, insert the plugs into the power output receptacles. If there are no plugs attached to the power cables, connect the normal load to the two binding posts on the side of the suppressor unit. Make sure that the power unit is grounded to a good earth ground.
 - b. Perform the following:
 - (1) Check the crankcase to be sure that it is filled with oil.
 - (2) Check the air cleaner to be sure that it is filled with oil to the mark on the air cleaner bowl.
 - (3) Check the fuel tank to be sure that it is filled with gasoline and there is no evidence of fuel leaks on or around the power unit.

- (4) Connect a remote fuel supply (if available) to the power unit. Make sure that all connections are tight. Inspect remote fuel supply connections for evidence of fuel leaks.
- (5) Inspect the power unit to make sure that air passages of the air cleaner and muffler are not obstructed.
- (6) Depress the stop button (located on the breaker box next to the carburetor) and crank the power unit a few times to make sure that all parts move freely.

78. Test Items

Follow the procedure described below to test the power unit:

Caution: Be sure that the normal load equipment is turned off before starting the power unit. Equipment damage may result.

TAGO 7688-B

3y (
Order
of
the
Secretary
of
the
Army:

Chief of Staff.	General,	EARLE	
Staff.	General, United States Arr	EARLE G. WHEELER,	

ny,

Official:

Distribution:

Active Army:

USASA (2)

The Adjutant General.

Major General, United States Army,

J. C. LAMBERT,

	Item	Action	Result
1	Fuel shutoff valve	Turn to point down. (On power units procured on Order No. 29-6068-29, turn to point up.)	Valve moves freely with positive action.
2	Stop button	Depress; crank engine a few times; observe fuel cleaner bowl	Fuel cleaner bowl fills with fuel.
3	Carburetor choke lever	Turn fully clockwise	Choke is closed.
4	Starter rope	Place starter rope through slot in rim of starter pulley with knot on starter rope outside of pulley rim. Wind starter rope clockwise around starter pulley and give starter rope a quick pull. If power unit fails to start after three or four attempts, try starting with choke partly open or fully open.	Power unit starts.
5	Carburetor choke lever	Turn gradually counterclockwise during 15-minute warmup period.	Choke is fully opened when power unit is warmed up. Power unit runs smoothly.
6	Exhaust sound	Listen to exhaust	Exhaust sounds crisp and evenly timed.
7	Exhaust gas	Look for smoke	Exhaust gas is nearly invisible.
8	Power switch on load equipment	After 15-minute warmup period, turn on power unit load equipment and check power unit output voltage at load.	Power output voltage is equal to normal input voltage of load equip- ment. Power unit runs smoothly.
9	Stop button	Depress and hold	Power unit stops.
		Note. If remote fuel supply is not connected, restart power unit and turn fuel shutoff valve handle to point up. (On power units procured on Order No. 29-6068-29, turn fuel shutoff valve to point left.)	Note. Power unit stops after fuel in fuel line and carburetor is consumed.
10	Fuel shutoff valve	Turn to point in. (On power units procured on Order No. 29-6068-29, turn to point right.)	Valve moves freely with positive action.
11	Starter rope	Same as step 4	Power unit starts.
12	Fuel shutoff valve	After 5 minutes of operation, turn to point up. (On power units procured on Order No. 29–6068–29, turn to point left.)	Power unit stops after fuel in fuel line and carburetor is consumed.

MDW (1) Armies (2)

USA Strat Comm Comd (4) USA Msl Comd (4) USA Elet Comd (5)

Units org under fol TOE's

(2 cy ea UNOINDC)

JBUSMC (2)

Dugway PG (5) APG (5) OS Maj Comd (3)

ARADCOM Rgn (2) ARADCOM (2)

OS Base Comd (2)

Sig Fld Maint Shops (3)

USARCARIB Sig Agey (1) Chicago Procurement Dist (1)

LOGCOMD (2)

Hq, Army Mat Comd (5)

USA Mob Spt Cen (1) USA Elct Mat Agey (25)

Army Pic Cen (2) AMS (1) OSA (1) POE (1)

Army Tml (1)

USA Trans Tml Comd (1)

USA Elet R&D Actv, Ft Huachuca USA Elct R&D Actv, White Sands

USCONARC (5) USAATBD (1) CofT (1) CSigO (5) CofEngrs (1) CNGB (1) DASA (6)

TSG (1)

USA CD Agcy (1)

Corps (2)

Engr Cen (5) Sig Dep (OS) (12) Sig Sec, GENDEP (5)

9-47

6-575 6-565 6-525 6-302

Ft Worth (8) Tobyhanna (12) Lexington (12) Sacramento (17)

GENDEP (OS) (2) Army Dep (2) except

Instl (2) except

Ft Monmouth (63)

6-201 6-200 6-101 6-100 5-343

1 - 2071-107 1-1271 - 171-7

6-301 6-300 USATC (2) AFIP (1) WRAMC (1) USMA (5) 1st GM Bde (5) USA Corps (3)

Svc Colleges (2)

Br Svc Sch (2)

```
9-227
                                       10-106
   9-377
                                       10-107
   11-7
                                       10-201
   11-15
                                       10-202
   11-16
                                       10-206
   11-25
                                      10 - 377
   11-26
                                      10-445
   11-27
                                      10-446
   11-36
                                      10-447
   11-37
                                      10-448
   11-38
                                      10 - 467
   11-39
                                      10-500 (Tms AA-AD)
   11-45
                                      11-5
   11-46
                                      11-6
  11-55
                                      11 - 555
  11-56
                                      11 - 557
  11-57
                                      11 - 587
  11-95
                                      11 - 592
  11-96
                                      11 - 597
  11 - 97
                                      12 - 17
  11-98
                                      17
  11-117
                                      19-55
  11 - 155
                                      19 - 56
  11-157
                                     19-57
 11-500 (Tms AA-AD) (4)
                                     19-217
 29-65
                                     19-247
 29-500
                                     19-500 (Tms AA-AE)
 30 - 25
                                     29-1
 30-26
                                     29-5
 30-500 (Tms AA-AE)
                                     29-21
 32 - 57
                                     29-56
 32-500
                                     44-436
 33-77
                                     44-437
 33-600 (Tms AA-AC)
                                     44-445
 37
                                    44-446
 39-51
                                    44-447
 39 - 52
                                    44-448
 39-62
                                    44-535
 39 - 65
                                    44-536
 44 - 7
                                    44-537
 44-8
                                    44-544
 44-12
                                    44 - 545
 44 - 15
                                    44 - 546
44 - 16
                                    44-547
44 - 17
                                   44-548
44-435
                                   55-137
9-500 (Tms AA-AC)
                                   55-138
9-510
                                   57
10-105
                                   57-5
```

NG: State AG (3); units—same as active Army except allowance is one copy to each unit.

USAR: None.

For explanation of abbreviations used, see AR 320-50.

☆ U.S. Government Printing Office: 1963—650519